997 Functional Acknowledgment

Functional Group ID=FA

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

Notes:

- 1. Use this implementation convention to acknowledge receipt, and acceptance or rejection of a functional group and the transaction set(s) contained within it based upon EDI translation software syntax edits.
- 2. Trading partners should limit the scope of the data provided in the case of transaction set receipt and rejection notification to the transaction set level, i.e., the 1/AK3/040 loop should not be used. However, if separate arrangements with trading partners or flexibility within the translation software do not permit this level of response, the procedures identified herein, as applicable to the 1/AK3/040 loop should be followed.

Must Use	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Req. <u>Des.</u> M	Max.Use	Loop <u>Repeat</u>	Notes and Comments n1
Must Use	020	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2		·	999999	
	030	AK2	Transaction Set Response Header	O	1		n3
			LOOP ID - AK3			999999	
	040	AK3	Data Segment Note	O	1		c1
	050	AK4	Data Element Note	О	99		
Must Use	060	AK5	Transaction Set Response Trailer	M	1		
Must Use	070	AK9	Functional Group Response Trailer	M	1		
Must Use	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments.

The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code.

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- There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.
- 2. AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
- **3.** AK2 is used to start the acknowledgement of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

Transaction Set Comments

1. The data segments of this standard are used to report the results of the syntatical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

Segment: ST Transaction Set Header

Position: 010

Loop:

Level:

Usage: Mandatory

Max Use: 1

Purpose: To indicate the start of a transaction set and to assign a control number

Syntax Notes:

Semantic Notes: 1 The transaction set identifier (ST01) used by the translation routines of the

interchange partners to select the appropriate transaction set definition (e.g.,

810 selects the Invoice Transaction Set).

Comments:

	Ref.	Data					
	Des.	Element	<u>Name</u>	Att	ribute	<u>:s</u>	
Must Use	ST01	143	Transaction Set Identifier Code	\mathbf{M}	ID	3/3	
			Code uniquely identifying a Transaction Set				
			997 X12.20 Functional Acknowledgmen	ıt			
Must Use	ST02	329	Transaction Set Control Number	\mathbf{M}	AN	4/9	
			Identifying control number that must be unique within the transaction se functional group assigned by the originator for a transaction set				
			Use to transmit a unique number assigned by the originator of the transaction set. The number may be system generated. This same number will be cited in SE02.				

Segment: AK1 Functional Group Response Header

Position: 020

Loop:

Level:

Usage: Mandatory

Max Use: 1

Purpose: To start acknowledgment of a functional group

Syntax Notes:

Semantic Notes:

- 1 AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
- 2 AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.

Comments:

Notes:

- 1. Use to identify the unique identification number of the functional group in which the transaction set(s) being acknowledged was received.
- 2. Only one functional group may be referenced in a single 997 acknowledgment transaction set.

	Ref.	Data	•					
	Des.	Element	<u>Name</u>	Att	<u>ribute</u>	<u>es</u>		
Must Use	AK101	479	Functional Identifier Code	\mathbf{M}	ID	2/2		
			Code identifying a group of application related transacti	on se	ets			
			Cite, using the appropriate code from the X12 code list, the functional group ID found in GS01 of the functional group being acknowledged.					
			Refer to 003050 Data Element Dictionary for acceptable	able code values				
Must Use	AK102	28	Group Control Number	M	N0	1/9		
			Assigned number originated and maintained by the send	ler				
			Use to identify the number cited in GS06 of the functional group backnowledged.					

Segment: AK2 Transaction Set Response Header

Position: 030 **Loop:** AK2

Level:

Usage: Optional

Max Use: 1

Purpose: To start acknowledgment of a single transaction set

Syntax Notes: Semantic Notes:

1 AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.

2 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

Comments:

Notes: 1. Use to identify the unique identification number of the transaction set being acknowledged.

2. AK2 and AK5 shall be provided for each Transaction Set that is accepted.

3. Also, AK2 and AK5 shall be provided for each Transaction Set being rejected for containing a syntactical error.

	Ref.	Data	•			
	Des.	Element	<u>Name</u>	Att	ribut	<u>es</u>
Must Use	AK201	143	Transaction Set Identifier Code	\mathbf{M}	ID	3/3
			Code uniquely identifying a Transaction Set			
			Refer to 003050 Data Element Dictionary for acceptable	e cod	le valu	ies.
Must Use	AK202	329	Transaction Set Control Number	M	AN	4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set			
			Use to identify the number cited in SE02/ST02 of the tra-acknowledged.	nsact	ion se	t being

AK3 Data Segment Note **Segment:**

Position: 040 Loop: AK3

Level:

Usage: Optional

Max Use:

Purpose:

Syntax Notes:

To report errors in a data segment and identify the location of the data segment

Semantic Notes: Comments:

Notes:

- 1. Use the 1/AK3/040 loop only when a trading partner agreement or translation software do not limit receipt and rejection reporting to the group or transaction set level.
- 2. This 1/AK3/040 loop is used only to identify one or more segments containing syntactical errors resulting in rejection of the transaction set or functional group. This loop is not used when transaction set and functional group receipt and acceptance is being acknowledged.

Data Element Summary

			Data Element Summary					
	Ref.	Data						
	<u>Des.</u>	Element	<u>Name</u>		<u>ribute</u>	<u>es</u>		
Must Use	AK301	721	Segment ID Code	M	ID	2/3		
			Code defining the segment ID of the data segment in err A - Number 77)	or (S	See Ap	pendix		
			Use to identify the segment containing syntactical errors, as it appears in the ASC X12 Data Segment Dictionary, e.g., DTM, N1, REF, etc.					
Must Use	AK302	719	Segment Position in Transaction Set	M	N0	1/6		
			The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1					
			Use to identify the segment's sequential position within the data stream of the transaction set as transmitted. This number is not the segment's position number portrayed in the transaction set structure. For example, if the segments used in an 810 request for progress payment were as follows: ST, BIG, REF, N1, N1, PER, ITD, DTM, IT1, IT1, SLN, SLN, SLN, TDS, CTT, SE, and there was a syntax error in the second use of the N1 segment, the number cited would be 5. If the syntax error was in the third use of the SLN segment, the number cited would be 13.					
	AK303	447	Loop Identifier Code	0	$\mathbf{A}\mathbf{N}$	1/4		
			The loop ID number given on the transaction set diagram this data element in segments LS and LE	ne loop ID number given on the transaction set diagram is the value for is data element in segments LS and LE				
	AK304	720	Segment Syntax Error Code	0	ID	1/3		
			Code indicating error found based on the syntax editing	of a	segme	ent		
			1. Use only when a segment is being rejected, to identify	, the	basis j	for		
						-		

rejection. Do not use when the error is in a data element within the

segment and editing is being done at least to that level.

Refer to 003050 Data Element Dictionary for acceptable code values.

AK4 Data Element Note **Segment:**

Position: 050 Loop: AK3

Level:

Usage: Optional Max Use:

Purpose: To report errors in a data element and identify the location of the data element

Syntax Notes: Semantic Notes:

Comments:

Notes: Use to identify an error with a data element. When used, there must be a use of the

AK3 segment citing the segment in which the data element with the error appears. Use multiple occurrences of this segment to identify all data element errors within the segment specified in the preceding AK3 segment.

Data Flamont C

	Data Element Summary									
	Ref. <u>Des.</u>	Data <u>Element</u>			ribute	<u>es</u>				
Must Use	AK401	C030	Position in Segment	\mathbf{M}						
			Code indicating the relative position of a simple data element, or the relative position of a composite data structure combined with the relative position of the component data element within the composite data structure, in error; the count starts with 1 for the simple data element or composite data structure immediately following the segment ID							
Must Use	C03001	722	Element Position in Segment	M	N0	1/2				
			This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID							
			Use to indicate the position of the data element, within the containing the error, e.g., 3, 12, etc.	he se	gment	•				
	C03002	1528	Component Data Element Position in Composite	O	N0	1/2				
			To identify the component data element position within is in error	the c	ompo	site that				
	AK402	725	Data Element Reference Number	O	N0	1/4				
			Reference number used to locate the data element in the Data Element Dictionary							
			Use to identify the data element number as it appears in the ASC X12 Data Element Dictionary, for example, the data element number for N101 is 98, the data element number for N103 is 66.							
Must Use	AK403	723	Data Element Syntax Error Code	M	ID	1/3				
			Code indicating the error found after syntax edits of a d	ata el	lemen	t				
			Refer to 003050 Data Element Dictionary for acceptable	e cod	le valu	es.				
	AK404	724	Copy of Bad Data Element	O	AN	1/99				

This is a copy of the data element in error

Segment: AK5 Transaction Set Response Trailer

Position: 060 **Loop:** AK2

Level:

Usage: Mandatory

Max Use: 1

Purpose: To acknowledge acceptance or rejection and report errors in a transaction set

Syntax Notes: Semantic Notes:

Comments:

Notes: *Use to indicate whether the transaction set indicated in the corresponding AK2*

segment was accepted or rejected. If the transaction set is being rejected, use this

segment to identify up to five (5) syntax errors at the transaction level.

	D 6	D 4	Data Element Summary				
	Ref.	Data	N	A 44		_	
Must Has	<u>Des.</u>	Element 717		Att M	<u>ribute</u>	2 <u>s</u> 1/1	
Must Use	AKSUI	/1/	Transaction Set Acknowledgment Code		ID		
			Code indicating accept or reject condition based on the sthe transaction set	ynta	x editi	ing of	
			Refer to 003050 Data Element Dictionary for acceptable code values.				
	AK502	718	Transaction Set Syntax Error Code	o	ID	1/3	
			Code indicating error found based on the syntax editing	of a	transa	ction set	
			1. Use only when a transaction set is being rejected, to identify the basis for rejection. If multiple codes apply, they may be carried in AK503 through AK506, as necessary. No individual code may be used more than once in a single use of this segment.				
			2. Use code 5 when the 1/AK3/040 loop is not used and syntactical errors occurred below the transaction set level.				
			Refer to 003050 Data Element Dictionary for acceptable	cod	e valu	es.	
	AK503	718	Transaction Set Syntax Error Code	0	ID	1/3	
			Code indicating error found based on the syntax editing	of a	transa	ction set	
			Refer to 003050 Data Element Dictionary for acceptable	cod	e valu	es.	
	AK504	718	Transaction Set Syntax Error Code	o	ID	1/3	
			Code indicating error found based on the syntax editing	of a	transa	ction set	
			Refer to 003050 Data Element Dictionary for acceptable	cod	e valu	es.	
	AK505	718	Transaction Set Syntax Error Code	o	ID	1/3	
			Code indicating error found based on the syntax editing	of a	transa	ction set	
			Refer to 003050 Data Element Dictionary for acceptable	cod	e valu	es.	
	AK506	718	Transaction Set Syntax Error Code	o	ID	1/3	
			Code indicating error found based on the syntax editing	of a	transa	ction set	
			Refer to 003050 Data Element Dictionary for acceptable				
			,				

Segment: AK9 Functional Group Response Trailer

Position: 070

Loop:

Level:

Usage: Mandatory

Max Use: 1

Purpose: To acknowledge acceptance or rejection of a functional group and report the

number of included transaction sets from the original trailer, the accepted sets, and

the received sets in this functional group

Syntax Notes:

Semantic Notes: Comments:

1 If AK901 is 'A' or 'E', then the transmitted functional group is accepted. If AK901 is 'R', then the transmitted group is rejected.

Notes: 1. Use only to indicate whether the functional group was accepted or rejected

based on syntax errors in the functional group header or trailer.

- 2. If a functional group is rejected, all transaction sets within that group must be rejected using the AK9. In this case, individual AK2s for the rejected transaction sets need not be provided.
- 3. If the functional group is being rejected, use to identify up to five (5) syntax errors at the functional group level.

Data Element Summary

	Ref.	Data						
	Des.	Element	<u>Name</u>	<u>Att</u>	<u>ribute</u>	<u>es</u>		
Must Use	AK901	715	Functional Group Acknowledge Code	M	ID	1/1		
			Code indicating accept or reject condition based on the state functional group	ynta	x edit	ing of		
			Refer to 003050 Data Element Dictionary for acceptable	cod	e valu	es.		
Must Use	AK902	97	Number of Transaction Sets Included	M	N0	1/6		
			Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element					
Must Use	AK903	123	Number of Received Transaction Sets	M	N0	1/6		
			Number of Transaction Sets received					
Must Use	AK904	2	Number of Accepted Transaction Sets	M	N0	1/6		
			Number of accepted Transaction Sets in a Functional Gr	oup				
	AK905	716	Functional Group Syntax Error Code	O	ID	1/3		
			Code indicating error found based on the syntax editing of the functional group header and/or trailer 1. Use only when a functional group is being rejected to identify the basis for rejection.					

2. Codes may also be carried in AK906 through AK909, but no individual code may be used more than once in a single iteration of this

AK909

716

Refer to 003050 Data Element Dictionary for acceptable code values. **716 AK906 Functional Group Syntax Error Code** ID 1/3 0 Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 003050 Data Element Dictionary for acceptable code values. **AK907** 716 ID **Functional Group Syntax Error Code** 0 Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 003050 Data Element Dictionary for acceptable code values. **AK908** 716 **Functional Group Syntax Error Code** 0 ID Code indicating error found based on the syntax editing of the functional group header and/or trailer

segment.

Functional Group Syntax Error Code Code indicating error found based on the syntax editing of the functional group header and/or trailer

Refer to 003050 Data Element Dictionary for acceptable code values.

Refer to 003050 Data Element Dictionary for acceptable code values.

ID

Segment: **SE** Transaction Set Trailer

Position: 080

Loop:

Level:

Usage: Mandatory

Max Use: 1

Purpose: To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments).

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

	Ref.	Data				
	Des.	Element	<u>Name</u>	Att	ribute	<u>es</u>
Must Use	SE01	96	Number of Included Segments	\mathbf{M}	N0	1/10
			Total number of segments included in a transaction set i SE segments	nclu	ding S	T and
Must Use	SE02	329	Transaction Set Control Number	M	AN	4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set			on set
			Use the same number cited in ST02.			